

## JOB PERFORMANCE MEASURE (JPM)

**TASK CODE:** CB0-013

**TASK:** Calibrate an alpha laboratory instrument

**TRAINEE:** \_\_\_\_\_

**SSN:** \_\_\_\_\_

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**REFERENCES:**

- 1- WP12-HP1220, Contamination Detection Instrumentation

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**TERMINAL OBJECTIVE:** Given that an alpha laboratory instrument requires calibration, calibrate the instrument IAW WP12-HP1220

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**CONSEQUENCES OF INADEQUATE PERFORMANCE (ABNORMAL CONDITIONS):**

- 1- Improper survey results

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**HAZARDS (PERSONNEL/EQUIPMENT SAFETY):**

- 1- Electrical hazard

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**PRE-REQUISITE TRAINING / TASK COMPLETION:**

- 1- CL 1.01 through CL 1.09, CL 1.13
- 2- CL 2.03, CL 2.08, CL 2.19
- 3- CF0-110-JP, Operate a alpha laboratory instrument
- 4- CF0-156-JP, Control a radioactive source
- 5- ELC103, Electrical safety
- 6- MED101, First aid / CPR

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**TOOLS/EQUIPMENT (MATERIALS REQUIRED):**

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|--------------------------------|-------------------------------|
| 1- Alpha laboratory instrument | 6- Pu-239 calibration source  |
| 2- Procedure WP12-HP1220       | 7- High voltage probe         |
| 3- Calibration data sheet      | 8- Pulse generator MP1 or MP2 |
| 4- DVM                         | 9- Calibration sticker        |
| 5- Pu-239 check source         |                               |

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**Instructions to Trainee:** You shall acquire the necessary references and equipment, and complete all required documentation. Knowledge requirements shall be completed with 80% or greater accuracy. Critical step performance shall be completed with 100% accuracy.

**Instructions to Evaluator:** The trainee is to perform the terminal objective, without assistance, on the job site. Provide clarification of requirements if requested by trainee. You are encouraged to ask relevant questions to verify trainee understanding. If a trainee fails this JPM, clearly document the reason for failure and forward to the trainee's manager. Successful completion of this JPM shall be recorded on the trainee's certification card.

**KNOWLEDGE REQUIREMENTS:**

Ref.	Knowledge requirement	P/F
1	State the frequency of calibration for a alpha laboratory instrument	
1	State your actions if the alpha laboratory instrument fails the calibration	

**PERFORMANCE REQUIREMENTS:**

Ref.	CRITICAL STEPS	P/F
1	Perform a high voltage check	
1	Take the required DVM measurements	
1	Perform a digital time base check	
1	Perform an "as found" efficiency check	
1	Perform a detector assembly check	
1	Perform an "as left" efficiency check	
1	Complete the calibration data sheet	

**FINAL EVALUATION:**

PASS

FAIL

**COMMENTS:**

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**EVALUATOR SIGNATURE:**

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**DATE:**

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**STUDENT SIGNATURE:**

\_\_\_\_\_

**DATE:**

\_\_\_\_\_

MANAGER SIGNATURE: \_\_\_\_\_

DATE: \_\_\_\_\_